

CLAIMS:

1. A liquid crystal display device having, between a polarizer and an analyzer, a first layer of twisted liquid crystal material with a twisted structure between two transparent substrates, with pixels being realized between the substrates, and a compensator layer, characterized in that a pixel comprises at least two sub-pixels having the same twist and, 5 viewed transversely to the substrates, twist angles which are rotated with respect to each other.
2. A liquid crystal display device as claimed in claim 1, characterized in that, the twist angles have a value of between 50° and 100°.
3. A liquid crystal display device as claimed in claim 1, characterized in that viewed transversely to the substrates, the twist angles are rotated through substantially 180° with respect to each other.
4. A liquid crystal display device as claimed in claim 1, characterized in that the compensator layer has a twisted structure with a twist which is opposite to that of the layer of twisted liquid crystal material.
5. A liquid crystal display device as claimed in claim 4, characterized in that the compensator layer has a twist angle which is opposite to that of the layer of twisted liquid crystal material.
6. A liquid crystal display device as claimed in claim 1, characterized in that the compensator layer comprises at least a retardation layer with an optical axis perpendicular to 25 the compensator layer.
7. A liquid crystal display device as claimed in claim 1, characterized in that the compensator layer comprises a negative birefringent material.

8. A liquid crystal display device as claimed in claim 1, characterized in that the compensator layer comprises a liquid crystal material with a twisted structure.